

## Outdoor Recreation Capacity and Space Guidelines

Activity and Type of Facility	Dimensions**	Net acres* Required	Instant Capacity	Units/Pop.	Remarks
<b>Archery</b> (Range)	10' x300' min per target	.85	10	1/50,000	Ten positions – with movable targets. Could be per part of a range complex including rifle, pistol, skeet and trap-buffer area required.
<b>Baseball</b> (Diamond) Adult Little League	350' x 350' (400' to CF) 200' x 200' (250' to CF)	3.0 1.5	18	1/6,000	Should be included in complex of fields at community district or regional parks – lighting desirable. Check League Guidelines for actual size
<b>Basketball</b> (court)	60' x 100'	0.15	10	1/5,000	Full court – ½ court games would double instant capacity. Should be included in complex of fields at neighborhood, community district or regional parks – also use as multipurpose court.
<b>Beach</b> (Swimming & Bathing)	Minimum 200' x600'	3.0 acre	150	25' shore/1,000	Consider at any facility where there is a water body that can support beaches. Swimming unit should contain 100' wide beach with 100' of available swimming water – 30% of people will be in water at one time under normal conditions – support facilities should be shared with other activities.
<b>Boating, (Power) &amp; Water Skiing</b>	Variable to meet conditions	12 ac/boat	3.0/boat	0.5 ac/1,000	Minimum of 100 acres of open water at least 4' in depth desirable – would accommodate eight boats at one time.
<b>Boat Ramp</b>	16' x length to meet 3" depth at low water	2 acres	8 boats/hr	See remarks	Provide one ramp for each 40 boats anticipated to use the facility on a design day. (12 – 14% slope)

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<b>Camping</b> Self-Contained Unit  Tent	35' x 45'  90' x 100'	0.125/acre  0.20 ac/site	8 units/ac  5 units/ac	10 ac/1,000  5 ac/1,000	Consider this density primarily as a destination-type facility – support facilities would be needed to integrate tent camping with self-contained units – two types should be separate when practical - consider at large regional and state facility  This is a low density and should be developed when resource is fragile – consider at regional and state facilities.
<b>Canoeing</b>	Variable	***	8 people		***Small streams 10' – 40' wide, 4 canoes/mile – medium stream 40' – 70' wide will support 8 canoes/mile – large streams 75' wide or over will support 12 canoes/mile. Width x 5,280 ÷ 43,560 sq ft = surface acres/mile.
<b>Trails</b> Multi – use  Bicycle  Equestrian  Hiking/jogging	Minimum 12' width  Minimum 10' width  Minimum 4' tread 8' cleared width  Minimum 4' tread - rural Minimum 5' tread - urban				Connector trails should be used to connect schools, parks, and other facilities. Proper signage and education is needed to minimize user conflicts. Provide off-road bicycle trails where practical to connect schools, businesses, parks.  Connector trails should be used to connect facilities.
<b>Firearms</b> (Shooting Ranges)	Variable	5ac	20	1/50,000	Ten positions on each range. If possible, develop range complex with rifles, pistols ranges, and skeet and trap field. – Careful coordination with National Rifle Association and local gun clubs desirable. Provide adequate buffer from other activities.

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<b>Fishing</b>					
Bank	8' x 50'	400 sq. ft.			
Shoreline	1,000		100 mile	1 mile shore/	
Boat		4 ac water/boat with 2 people	.50/acre	4 acre/1,000	Consider on any water body that can support fish population – DGIF suggests 10-acre minimum size where unlimited fishing pressure anticipated. Fishing water is a plus for any community, district, regional or state facility.
Stream	1 mile/four fisherman	4/mile			
<b>Football (Field)</b>	195' x 480' 150' x 360' Actual play area	2.25	22	1/10,000	Should be included in complex of fields at community, district or regional park. Lighting desirable – could also serve as field hockey, lacrosse, or soccer field
<b>Golf</b>	6,500 yards/18 holes average, 7,000 yards + championship course	50 acres/9 holes	4/holes x #holes	9 holes/25,000	Eighteen holes for each 50,000 people minimum size 100 acres – 160 acres desirable – can accommodate 500 persons/day.
<b>Hockey</b>					
Field	200' x 350'	1.6	22	1/25,000	
Ice Rink	85' x 200'	0.4	12	1/30,000	Should be included in complex of fields at community park. Lighting desirable. Are considered multipurpose fields. Artificial ice-making required – can adapt paved court areas to hold water in colder parts of state for limited winter use.
<b>Horseshoe (Lanes)</b>	12' x 50'	0.4	4	1/10,000	Include in neighborhood, community, district, or regional park with high percentage of people over 30 – multiple lane best.
<b>Hunting</b>					
Upland		12 acre/hunter/day	.083 hunters/ac		
Waterfowl		12/ac/hunter	.083 hunters/ac		Using a turnover factor of two = 6 acres of resources/hunter
<b>Lacrosse (Field)</b>	260' x 500'	3.0	20	1/125,000	Football or soccer fields often used – provided at community park.

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<b>ORV</b>					
2 Wheel	Min. 5' tread width	10 acre min.	4/mile	1 acre/5,000	Carefully planned trails are required to buffer from passive activities. Should be environmentally sensitive.
4 Wheel	Min. 7' tread width	15 acre min.	4/mile	2 acre/5,000	
<b>Picnicking</b>	Variable		4/table	10 units/1,000	Tie with other activities – Density higher in urbanized areas.
<b>Sailing</b>	Variable	6 acre/boat	.5 person/acre	1 acres/1,000	Large expanses of open water desirable.
<b>Skateboard Park</b>	Variable	0.25 min.	100	1/25,000	Smooth, level surface required – free gravels – Concrete preferred; ramp/component materials can vary – steel requires least maintenance; park should be designed to accommodate a variety of vehicles (skateboards, roller blades, bicycles, etc)
<b>Skiing</b> (Snow)	100' x length		75/lift	1 ac.ski slope/	Requires northeast facing slopes. On site of 1,000 100 acres or more, slopes should be protected by trees. Also requires annual snowfall of 30" or more, or artificial snow-making equipment.
<b>Soccer</b> (field)	250' x 400'	2.25	22	1/5,000	Provide at community, district, or regional park – football or lacrosse fields often used. Spring and fall seasons may required additional fields if football or baseball fields also used the soccer program.
<b>Softball</b> (Field)	300' x 300'	2.10	20	1/3,000	Provide in complex area neighborhood, community, district, or regional park. Lighting desirable – more than one field per site desirable.
<b>Swimming</b> (Pool)					
Jr. Olympic	45' x 75'	0.5	225	1/10,000	15 sq. ft. of water per person, based on 3% of a population, 100 sq. ft. deck per 35 sq. ft of water.
Olympic	75' x 150'	0.75	750	1/20,000	
<b>Tennis</b> (Court)	60' x 120'	0.2	4	1/2,000	Provided at neighborhood, community, district, or regional sites – develop in pairs where possible – lighting desirable.

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Volleyball	50' x 80'	0.1	12	1/1,000	Provide at neighborhood, community, district, or regional facilities. Consider using basketball courts for multipurpose use.